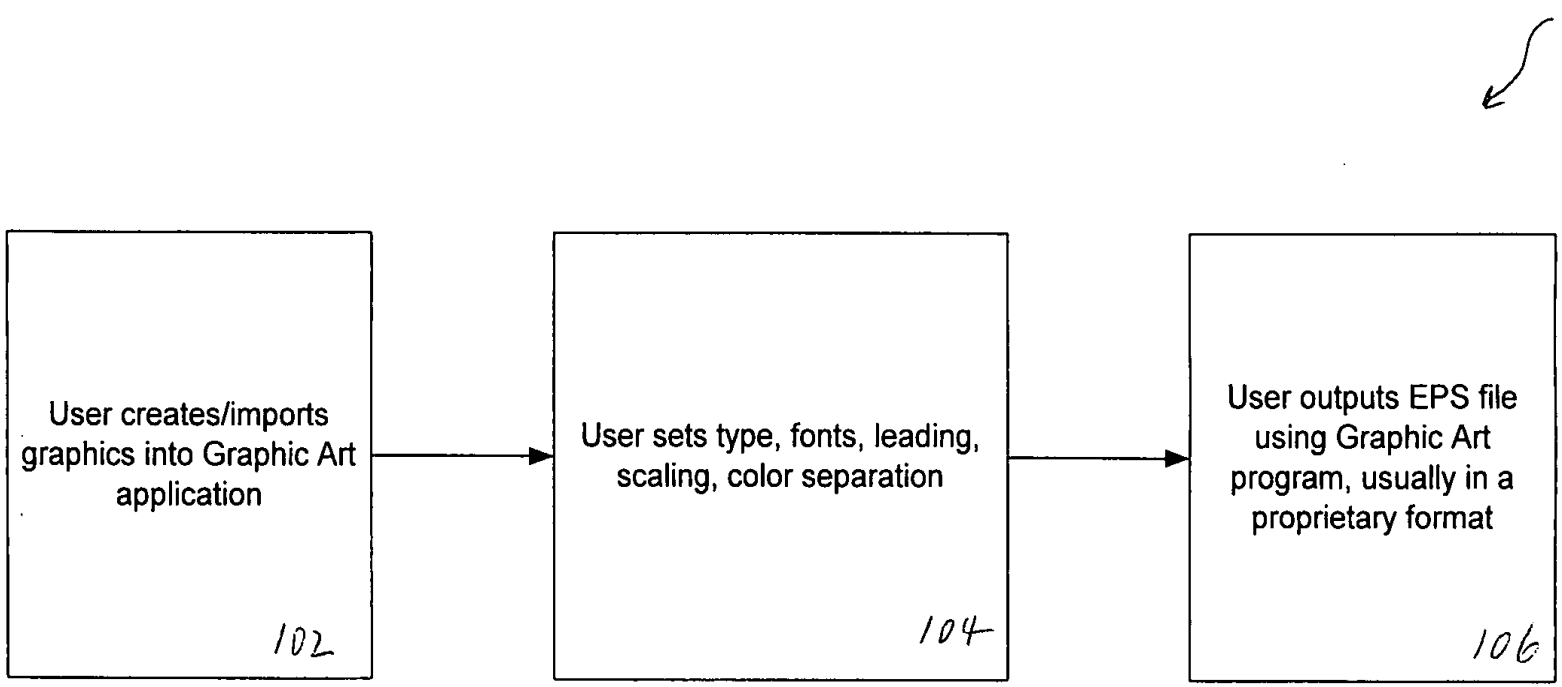

Figure 1 (Prior Art)

Page 3
Sep-3-99 9:32;
831 655 4288;
ent By: BEYER & WEAVER;

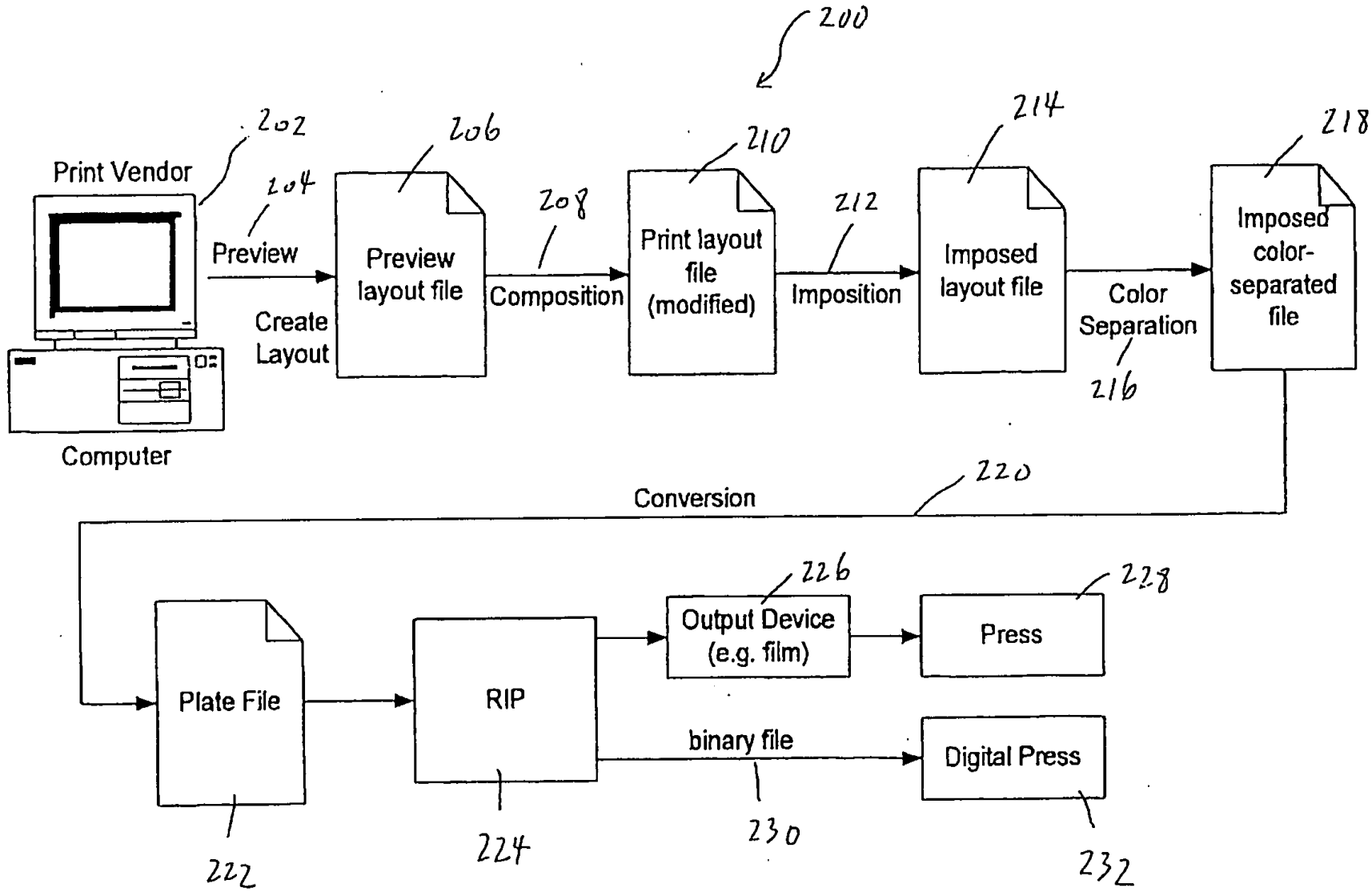

Figure 2 (Prior Art)

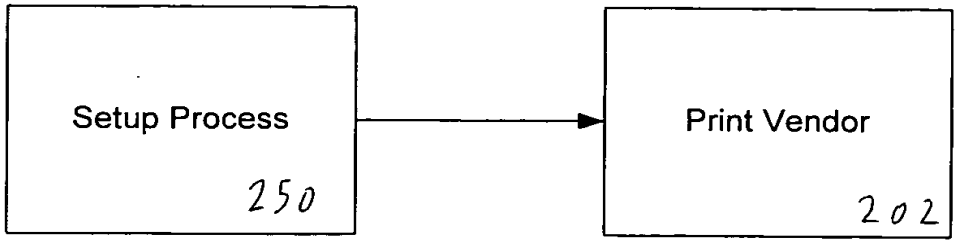

Figure 2A

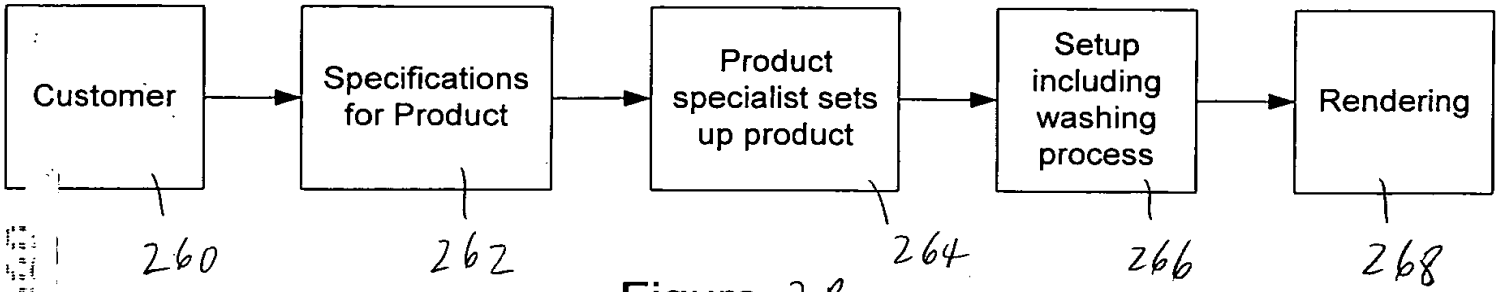

Figure 2B

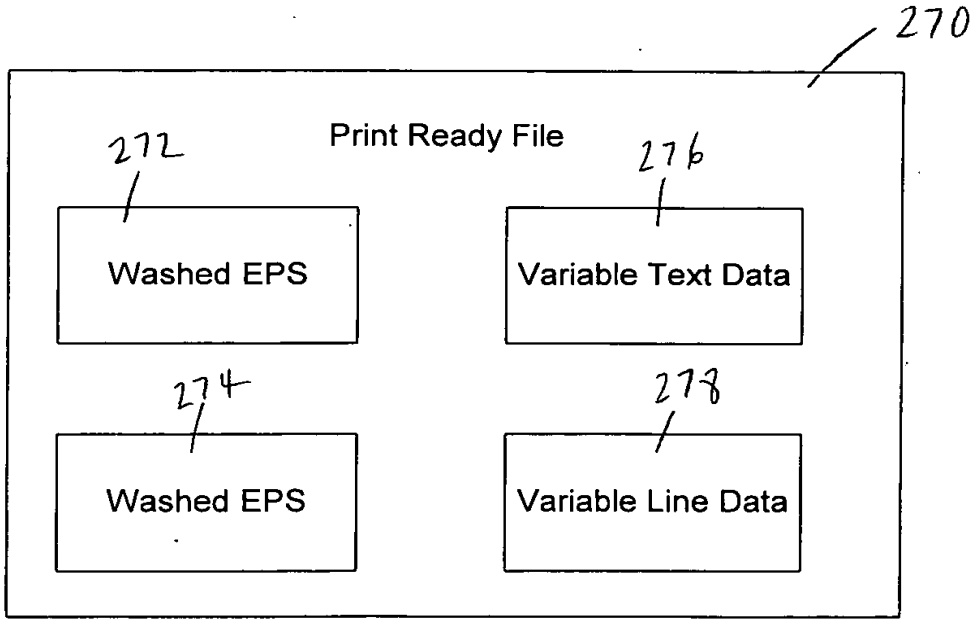

Figure 2C

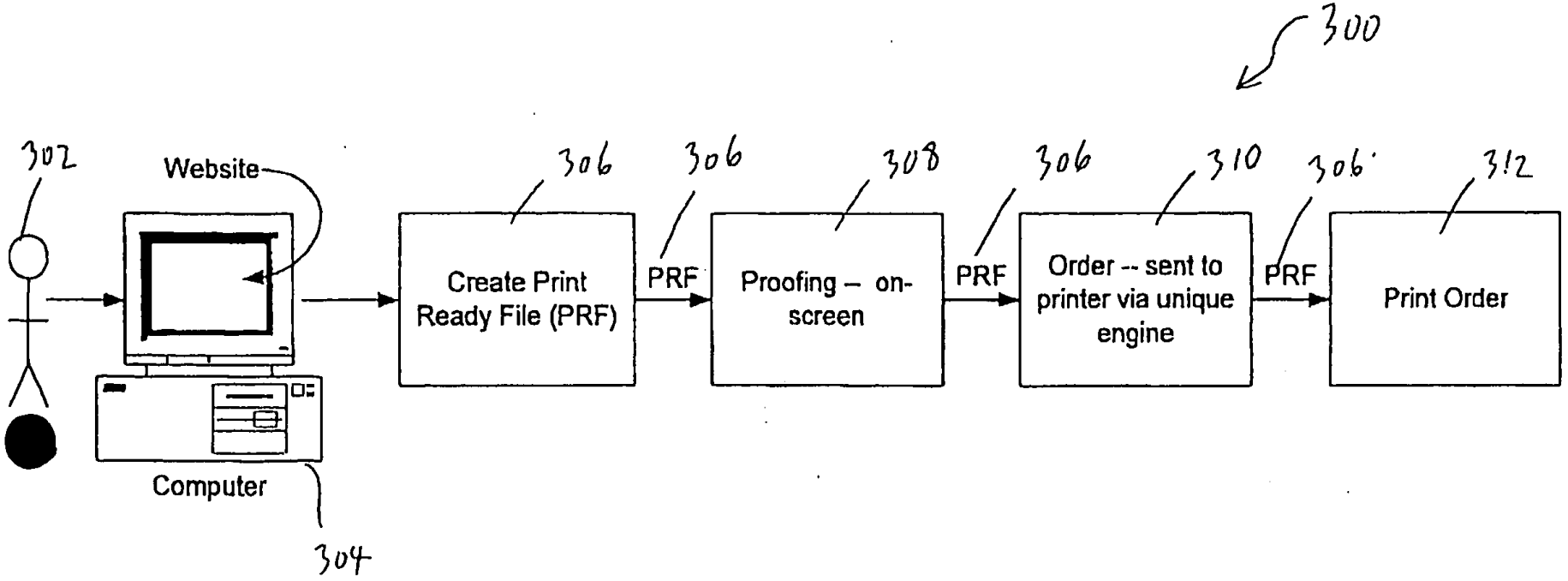
300
302
Website
306
306
308
306
310
306
312
Create Print Ready File (PRF)
PRF
Proofing – on-screen
PRF
Order -- sent to printer via unique engine
PRF
Print Order
Computer
304

Figure 3

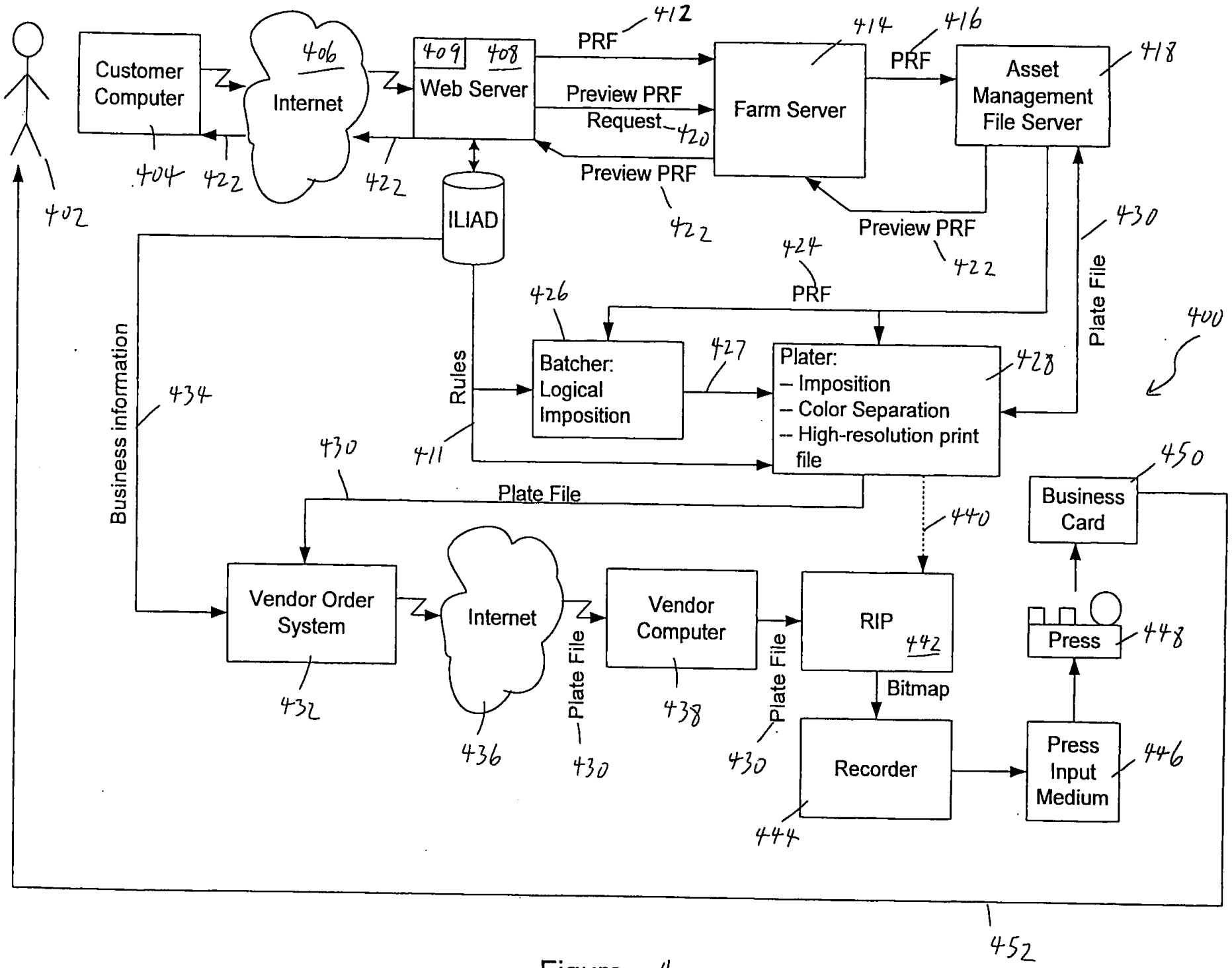
Customer Computer
Internet
Web Server
Farm Server
Asset Management File Server
ILIAD
PRF
Preview PRF
Request
Preview PRF
PRF
Preview PRF
Plate File
Business information
Rules
Batcher: Logical Imposition
Plater:
– Imposition
– Color Separation
-- High-resolution print file
PRF
Plate File
Business Card
Vendor Order System
Internet
Vendor Computer
RIP
Bitmap
Press
Recorder
Press Input Medium
Plate File
Plate File
402
404
406
408
409
412
414
416
418
420
422
422
422
422
424
426
427
428
430
430
430
430
432
434
436
438
440
442
444
446
448
450
452
400

Figure 4

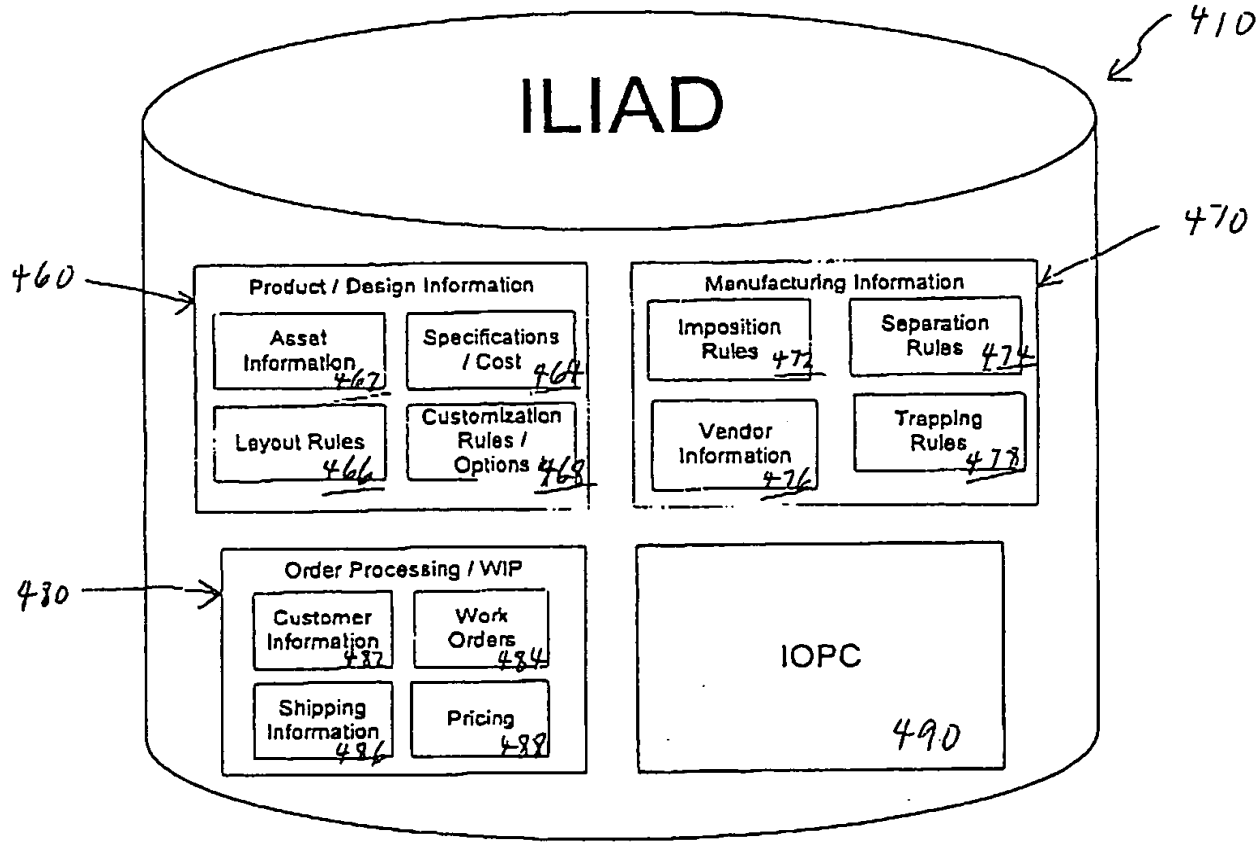
410
ILIAD
460
Product / Design Information
Asset Information 467
Specifications / Cost 464
Layout Rules 466
Customization Rules / Options 468
470
Manufacturing Information
Imposition Rules 472
Separation Rules 474
Vendor Information 476
Trapping Rules 478
480
Order Processing / WIP
Customer Information 482
Work Orders 484
Shipping Information 486
Pricing 488
IOPC
490

Figure 4A

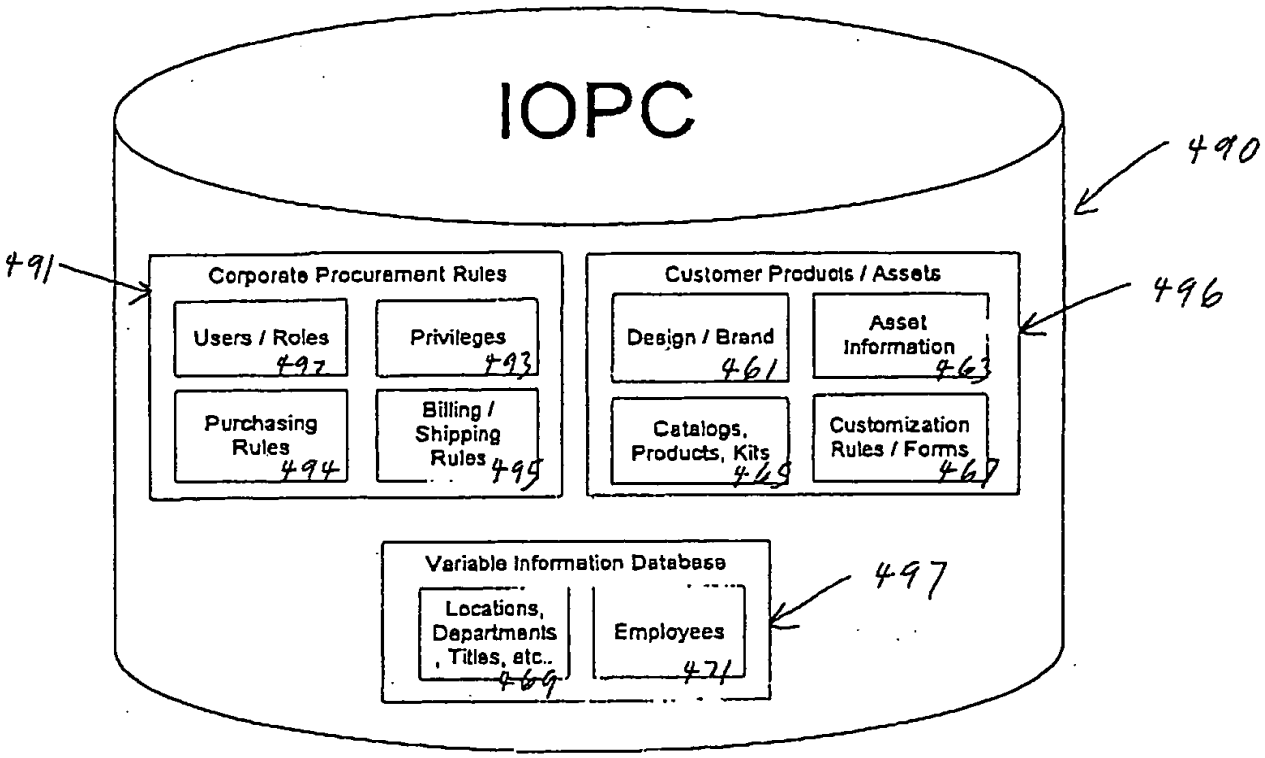
IOPC
490
491
Corporate Procurement Rules
Users / Roles
492
Privileges
493
Purchasing Rules
494
Billing / Shipping Rules
495
Customer Products / Assets
496
Design / Brand
461
Asset Information
463
Catalogs, Products, Kits
465
Customization Rules / Forms
467
Variable Information Database
497
Locations, Departments, Titles, etc..
469
Employees
471

Figure 4B

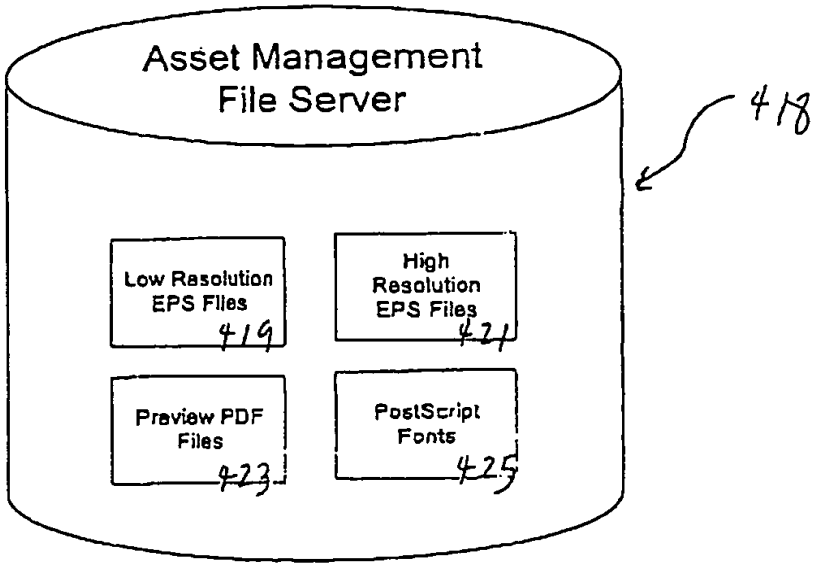
Asset Management
File Server
418
Low Resolution
EPS Files
419
High
Resolution
EPS Files
421
Preview PDF
Files
423
PostScript
Fonts
425

Figure 4C

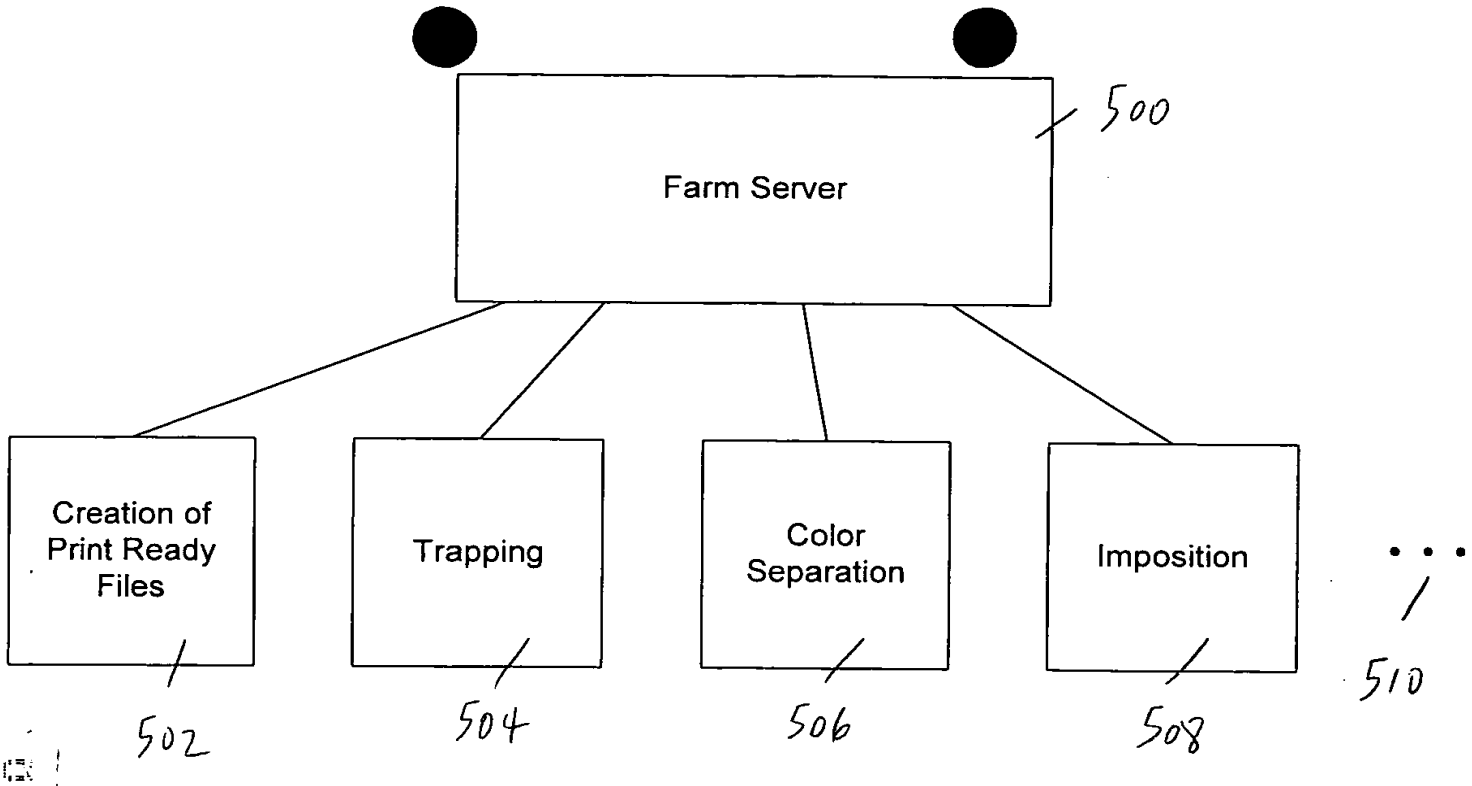

Figure 5A

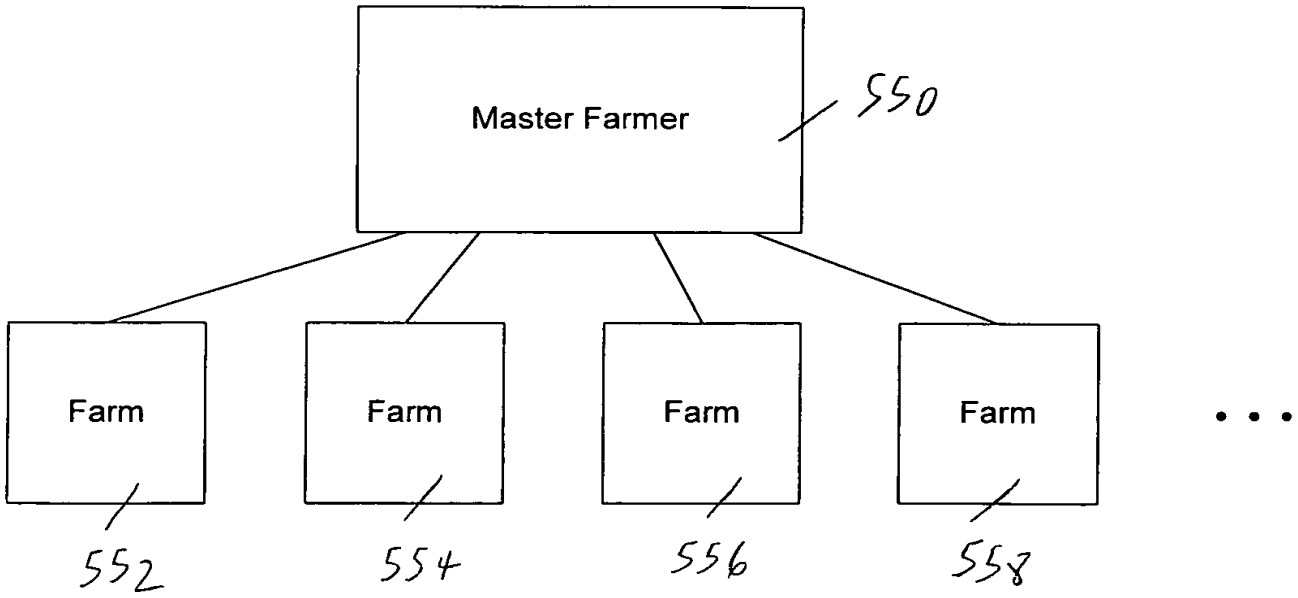

Figure 5B

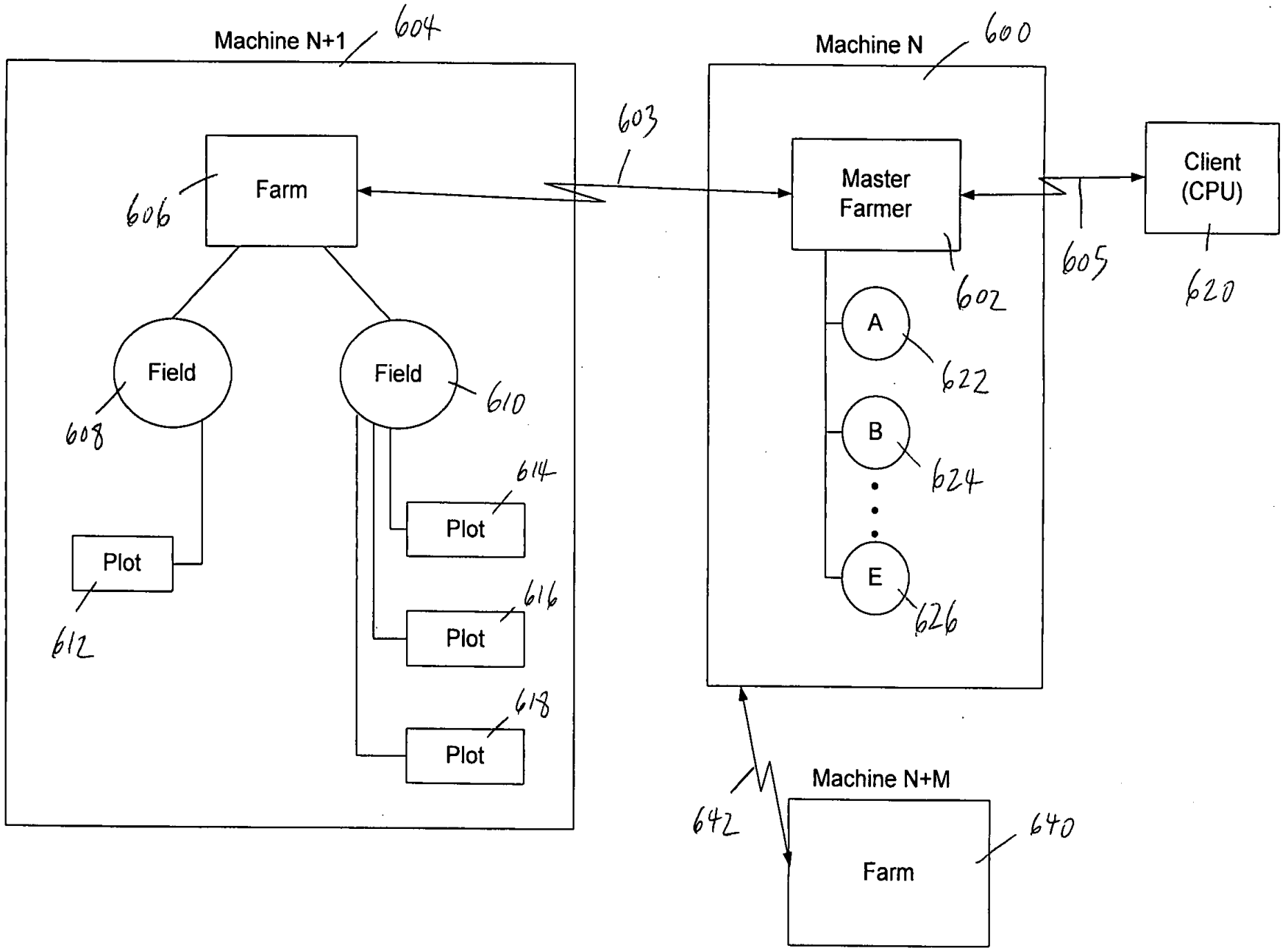
Machine N+1
604
Machine N
600
603
Farm
606
Master Farmer
602
Client (CPU)
620
605
Field
608
Field
610
A
622
B
624
E
626
Plot
612
Plot
614
Plot
616
Plot
618
Machine N+M
642
Farm
640

Figure 6

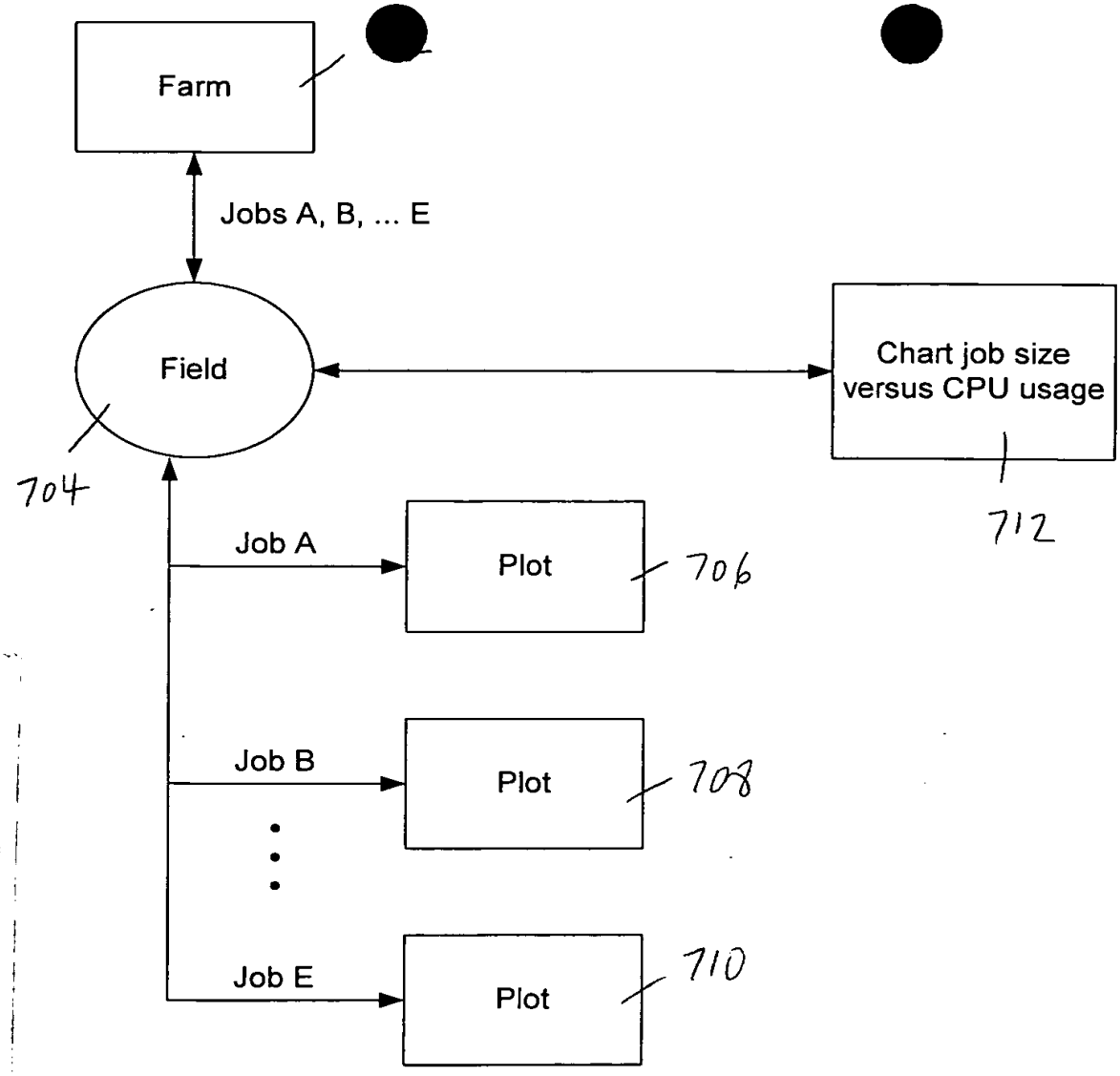

Figure 7A

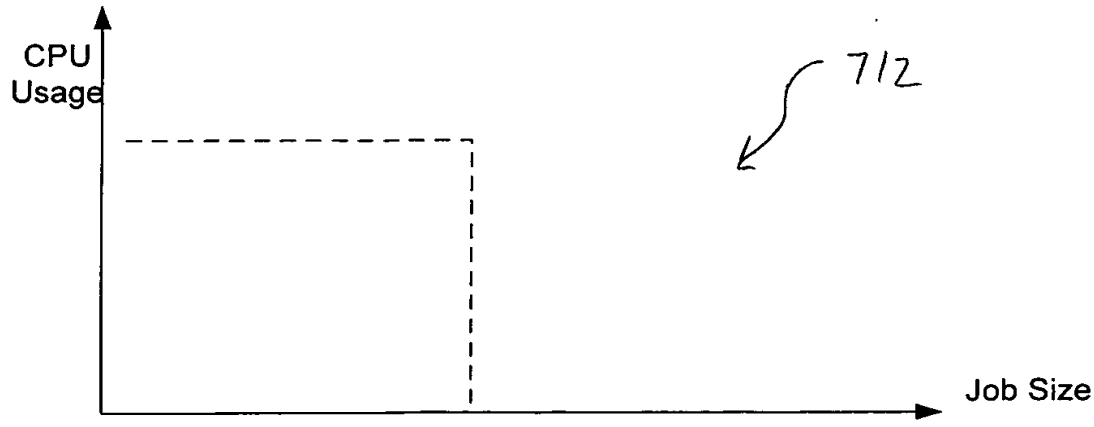

Figure 7B

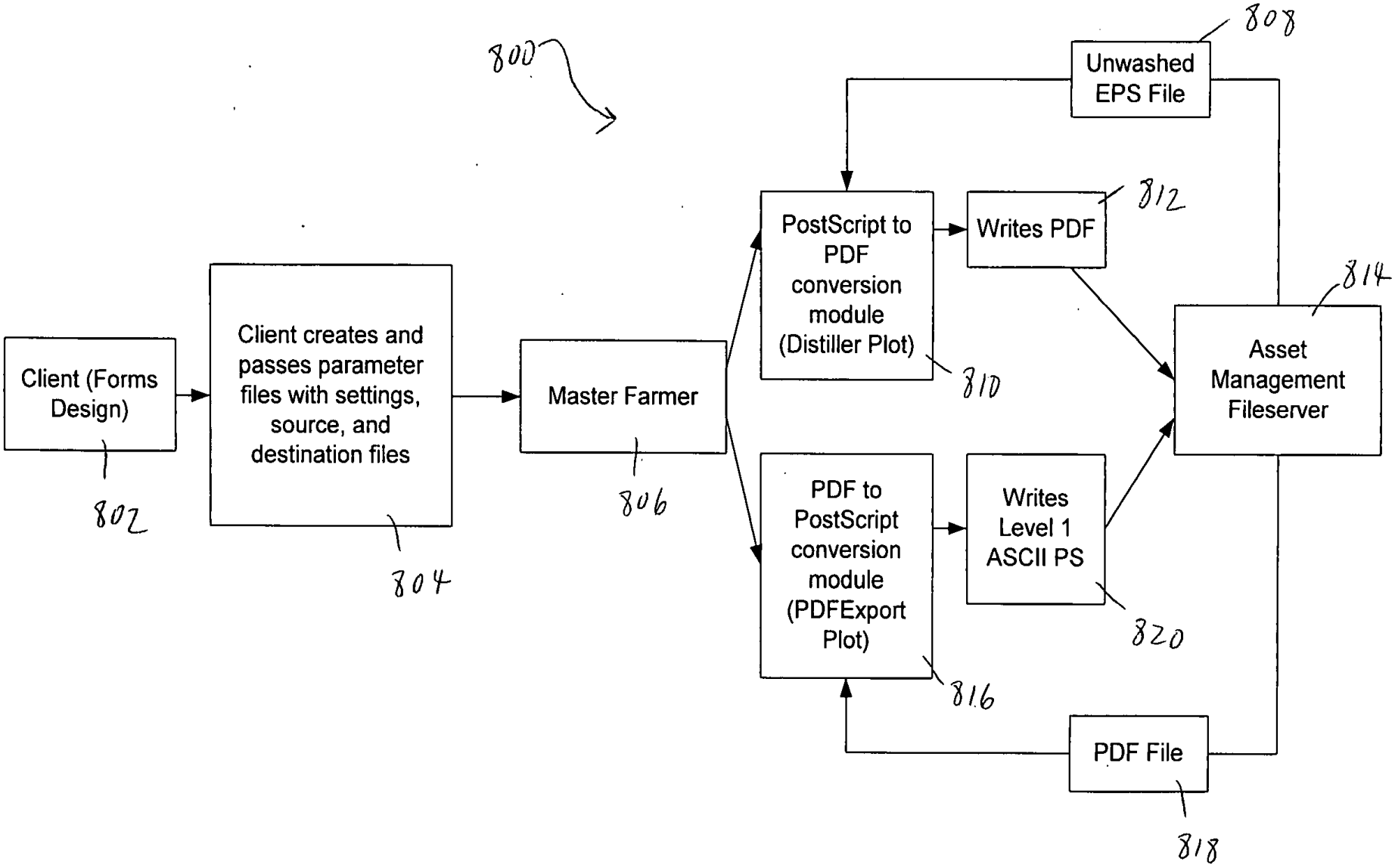
800
808
Unwashed EPS File
PostScript to PDF conversion module (Distiller Plot)
812
Writes PDF
814
Asset Management Fileserver
Client (Forms Design)
802
Client creates and passes parameter files with settings, source, and destination files
804
Master Farmer
806
810
PDF to PostScript conversion module (PDFExport Plot)
Writes Level 1 ASCII PS
820
816
PDF File
818

Figure 8

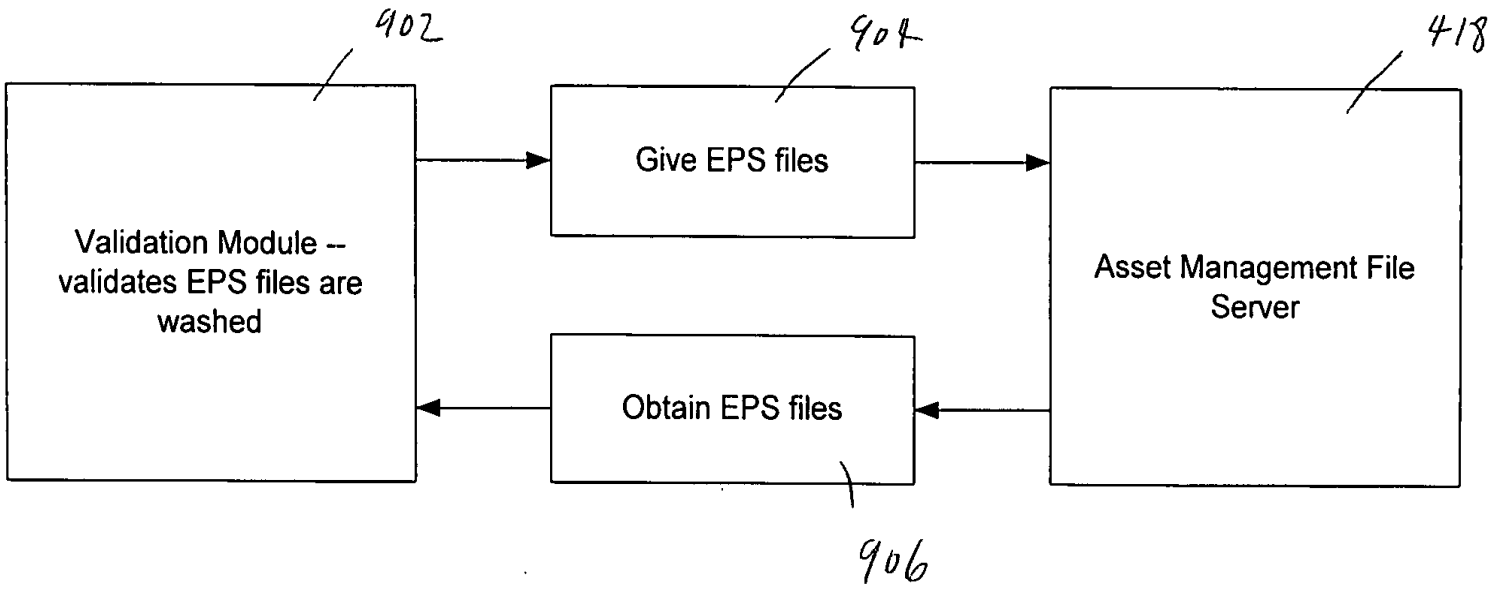
902
904
418
Validation Module -- validates EPS files are washed
Give EPS files
Asset Management File Server
Obtain EPS files
906

Figure 9

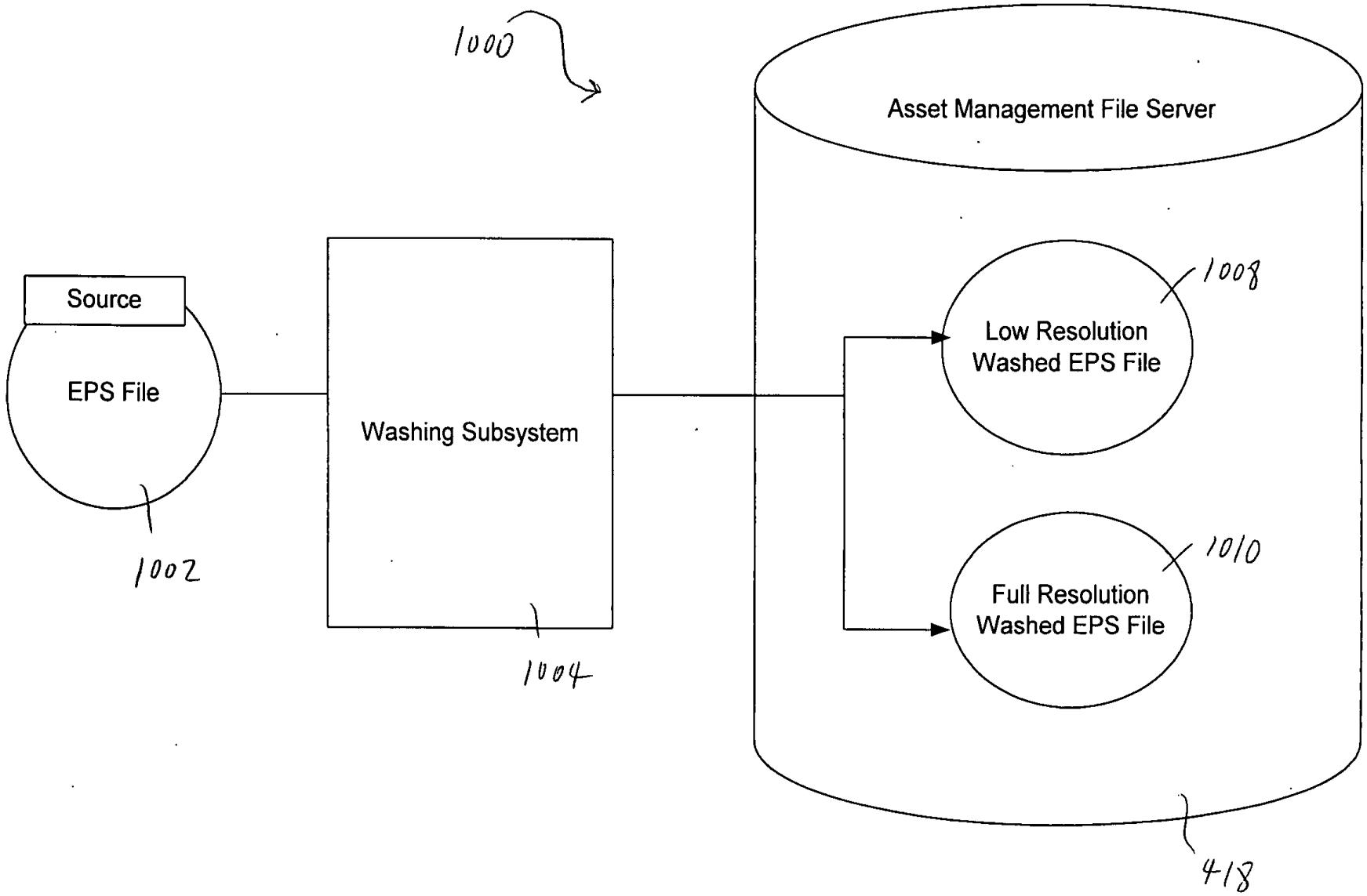
1000
Asset Management File Server
Source
EPS File
1002
Washing Subsystem
1004
1008
Low Resolution
Washed EPS File
1010
Full Resolution
Washed EPS File
418

Figure 10

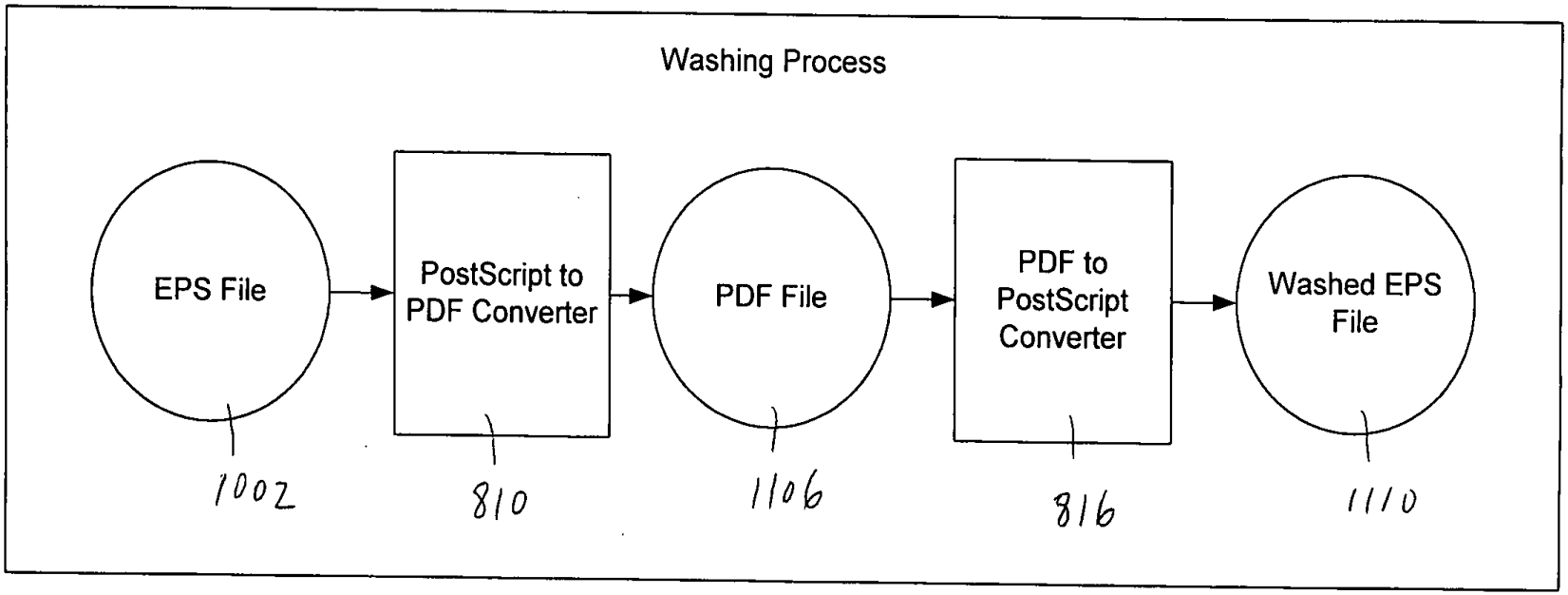
Washing Process
EPS File
PostScript to PDF Converter
PDF File
PDF to PostScript Converter
Washed EPS File
1002
810
1106
816
1110

Figure 11

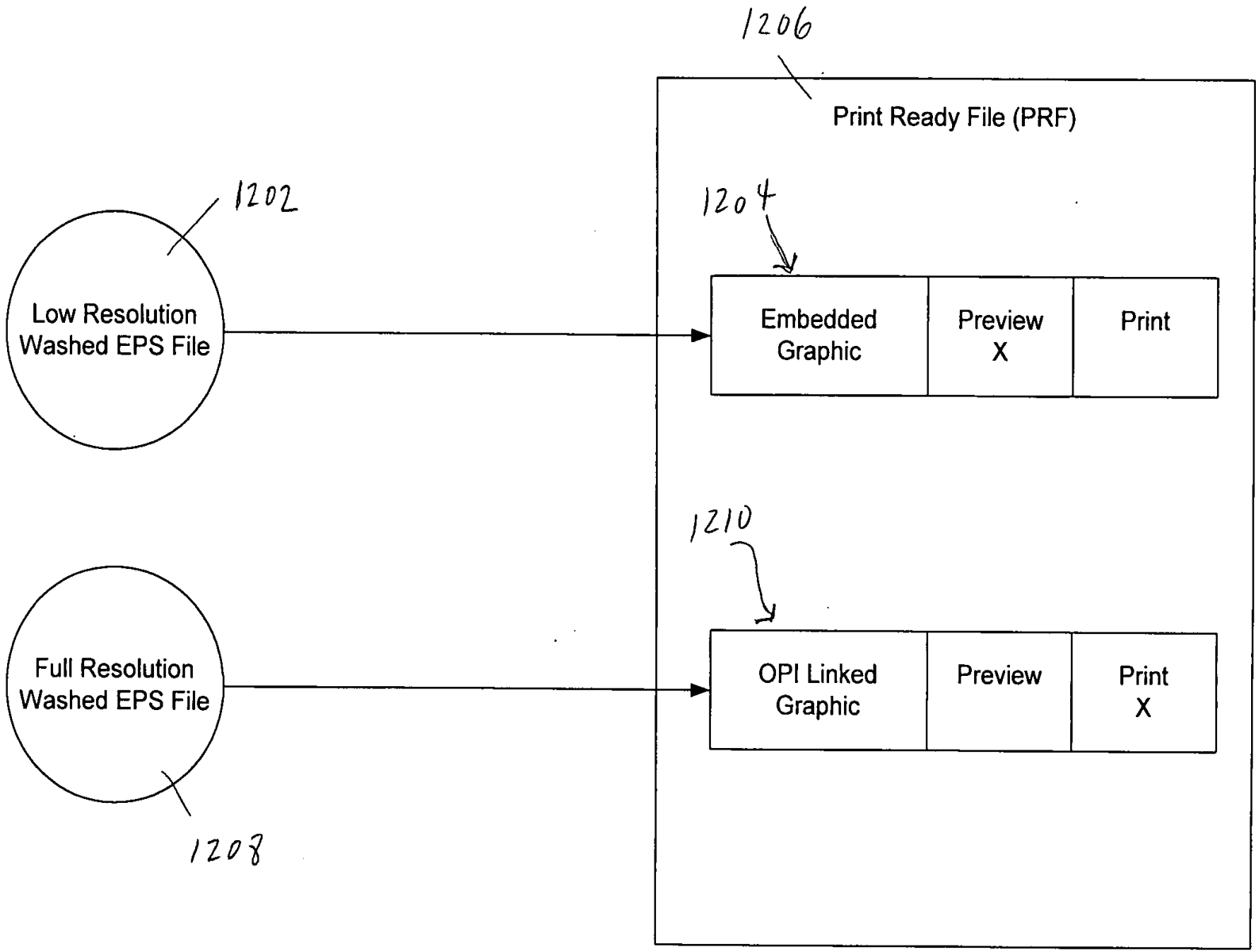
1206
Print Ready File (PRF)
1202
Low Resolution Washed EPS File
1204
Embedded Graphic
Preview X
Print
1210
Full Resolution Washed EPS File
OPI Linked Graphic
Preview
Print X
1208

Figure 12

DSC Header f[redacted]nwashed EPS File (with EP[redacted]e embedded in it)

```
%!PS-Adobe-2.0 EPSF-1.2
%%Title: UNTITLED-2
%%Creator: FreeHand 8.0
%%CreationDate: Tue Aug 31 09:46:24 1999
%%BoundingBox: 0 0 146 146
%%FHPathName:C:\WINNT\Profiles\timl\Desktop\UNTITLED-2
%ALDOriginalFile:C:\WINNT\Profiles\timl\Desktop\UNTITLED-2
%ALDBoundingBox: -149 -445 463 347
%%FHPageNum:1
%%DocumentSuppliedResources: procset Altsys_header 4 0
%%ColorUsage: Color
%%DocumentProcessColors: Black
%%EndComments
%%BeginResource: procset Altsys_header 4 0
```

Figure 13 (Prior Art)

Washed Print EPS file header and footer

```
%!PS-Adobe-3.0 EPSF-3.0
%%Title: (UNTITLED-2)
%%Version: 1 2
%%Creator: (FreeHand 8.0)
%%CreationDate: (D:19990831161926)
%%DocumentData: Clean7Bit
%%BoundingBox: 0 0 146 146
%%Pages: 0
%%DocumentProcessColors: (atend)
%%DocumentSuppliedResources:
%%+ procset (Adobe Acrobat - PDF operators) 1.2 0
%%EndComments
%%BeginProlog
%%EndProlog
%%BeginSetup
...
Footer:
%%PageTrailer
%%EndPage
%%Trailer
%%DocumentProcessColors: Magenta Yellow Black
%%ImageX-WashStamp: 08-31-99 16:22:49
%%EOF
```

Figure 14

Preview Parameters:		Print Parameters:	
ASCII85EncodePages	False	ASCII85EncodePages	False
AutoRotatePages	0	AutoRotatePages	0
CompatibilityLevel	1.2	CompatibilityLevel	1.2
LZWEncodePages	False	LZWEncodePages	False
PreserveHalftoneInfo	False	PreserveHalftoneInfo	True
PreserveOPIComments	False	PreserveOPIComments	False
PreserveOverprintSettings	False	PreserveOverprintSettings	True
TransferFunctionInfo	0	TransferFunctionInfo	0
UCRandBGInfo	1	UCRandBGInfo	0
UseFlateCompression	True	UseFlateCompression	True
AntiAliasColorImages	False	AntiAliasColorImages	False
AutoFilterColorImages	True	AutoFilterColorImages	False
ColorConversionStrategy	0	ColorConversionStrategy	0
ColorImageDownsampleType	0	ColorImageDownsampleType	0
ColorImageFilter	0	ColorImageFilter	0
ColorImageResolution	3600	ColorImageResolution	3600
ConvertCMYKImagesToRGB	True	ConvertCMYKImagesToRGB	False
ConvertImagesToIndexed	False	ConvertImagesToIndexed	False
DownsampleColorImages	True	DownsampleColorImages	False
EncodeColorImages	True	EncodeColorImages	False
AntiAliasGrayImages	False	AntiAliasGrayImages	False
AutoFilterGrayImages	True	AutoFilterGrayImages	False
DownsampleGrayImages	True	DownsampleGrayImages	False
EncodeGrayImages	True	EncodeGrayImages	False
GrayImageDepth	-1	GrayImageDepth	-1
GrayImageDownsampleType	0	GrayImageDownsampleType	0
GrayImageFilter	0	GrayImageFilter	0
GrayImageResolution	Not Set	GrayImageResolution	3600
AntiAliasMonoImages	False	AntiAliasMonoImages	False
DownsampleMonoImages	True	DownsampleMonoImages	False
EncodeMonoImages	True	EncodeMonoImages	False
MonoImageDepth	-1	MonoImageDepth	-1
MonoImageDownsampleType	0	MonoImageDownsampleType	0
MonoImageFilter	2	MonoImageFilter	1
MonoImageResolution	Not Set	MonoImageResolution	3600
EmbedAllFonts	True	EmbedAllFonts	True
SubsetFonts	True	SubsetFonts	False
MaxSubsetPct	100	MaxSubsetPct	0

Appendix A

Preview/Print Parameters:	
PsLevel	1
OutputType	PDOutput_EPSNoPrev (Adobe PDF library constant)
IncBaseFonts	KIncludeNever (Adobe PDF library constant)
IncEmbeddedFonts	KIncludeOncePerDoc (Adobe PDF library constant)
incType1Fonts	KIncludeOncePerDoc (Adobe PDF library constant)
IncTrueTypeFonts	KIncludeOncePerDoc (Adobe PDF library constant)
IncCIDFonts	KIncludeOncePerDoc (Adobe PDF library constant)
incType3Fonts	KIncludeOnEveryPage (Adobe PDF library constant)
IncProcsets	KIncludeOncePerDoc (Adobe PDF library constant)
IncOtherResources	KIncludeOncePerDoc (Adobe PDF library constant)
emitTTFontsFirst.	false
EmitShowpage	false
EmitDSC	true
SetupProcsets	true
EmitColorSeps	true
EmitRawData	false
BinaryOK	false
TTasT42	true
Scale	100.0
EmitHalftones	true
CenterCropBox	true
EmitPageRotation	false
EmitSeparableImagesOnly (RGB color conversion)	**true for Preview; false for Print**
EmitExtGState	true

Appendix B